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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,368	04/22/2004	Daniel Gelbart	91506/MGB	7069
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EXAMINER				
MUI, CHRISTINE T				
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1797				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/829,368

Applicant(s)

GELBART, DANIEL

Examiner

CHRISTINE T. MUI

Art Unit

1797

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks/Arguments, filed 17 December 2007, with respect to the rejection(s) of claim(s) 1-9 under 35 USC 102(b) and 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of USP 5,225,900 to Wright and JP 8-1194791 to Yasuo (submitted on the Information Disclosure Statement on 22 April 2004); Machine Translation was used for the basis of the rejections.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 5,225,900 to Wright, and further in view of Machine Translation of JP 8-194791 to Yasuo (herein referred 'Yasuo').
5. Regarding claims 1-3, 6-7 and 9-10, the reference Wright discloses a method of storing information within a reproduction system. The invention is applicable to the identification of documents where taggants are incorporated into marking materials used to create images. The reproduction system obtains information from an image on a document entered into the system by means of a taggant contained in the marking material that forms an image. A scanner (camera) is provided to produce an image of the taggant. The scanner is incorporated into an electronic reprographic system that permits the image signals to be manipulated in numerous ways. Marking material may include visible material such as toner, ink or marking film that may be blended as an additive or be chemically or physically bonded to one of the constituent materials in the toner or ink (printing ink). They may also include materials which are visible only in the ultraviolet or infrared portions of the light spectrum (invisible to the unaided human eye). The taggants that are composed of a material which fluoresces or reflects light of visible or 'invisible' wavelengths would fluoresce or reflect in the IR or UV wavelengths. The marking materials may be applied to the substrate by ink jet printing, encapsulated marking material printing or impact printing. Within the scope of the invention, a "taggant" is defined as an additive to the marking material which can be combined with a marking material composition and is selectively detectable independently from the primary colorant of the marking (tagging an item). The taggants applied to the marking

materials respond to an external stimulus (means of making taggant detectable) in a way that can be specifically recognized by a reproduction system (verifying), for example they may emit light at a certain wavelength band, preferably a narrow band in a near ultraviolet or near infrared portion of the light spectrum, upon exposure to white, ultraviolet or infrared light. When a taggant fluoresces or reflects light at a predetermined wavelength, the output light for each taggant can be detected and the presence or absence of the taggant can be determined. The detected taggant wavelengths is compared to a table containing a plurality of taggant wavelengths and associated information (verifying) maintained that may include the identity of toners, inks or marking films that contain the spectral response of colorants, various types of instructional information for the reproduction system or text of an item or annotation or mark of the item used as an identifier (registration feature). The system can then recognize the emitted light and through information programmed into its memory, which comprises of a Random Access Memory or RAM relating to that marking material to perform various functions such as identify the material or text of a document and annotations on the document that can be separately identified as part of the document (see abstract, column 3, line 12-39, column 5, line 33-column 6, line 3, column 6, lines 38-63, column 8, lines 25-59, column 11, lines 15-19). It is interpreted by the examiner that the toner, ink or marking film that is fluoresced at specific wavelengths is a form of marking the material where the taggant is physically or chemically bonded with the item or document. Furthermore, it can be interpreted that when the taggant is physically or chemically bonded with the item the taggant can be arranged in a random or aligned

distribution. Wright does not specifically disclose marking the material with a taggant in a random distribution. Yasuo discloses a two dimensional code system where a code card is filled with ferrite magnetic powder and grain at random to make the magnetic pattern of each card different from each other. The card is scanned by a semi-coaxial resonator to detect a characteristic magnetic patter and the patter is converted into a digital signal to be a password by means of an A/D conversion circuit. The data is then ciphered with the password by a coding generation circuit and written in the card by a thermosensitive recording head. When the card is being read, the magnetic patter is detected from a detection line to obtain the password and at the time of non-coincidence as the result of collation, the card is determined to be authorized (see abstract, [0008, 0009, 0013-0019]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to not just mark the material or item with a taggant but mark it with a random distribution of a taggants to uniquely mark and identify the item so that upon identification, there is only one item with a unique distribution of taggants on the item.

6. Regarding claims 4-5, the reference Wright and Yasuo disclose the claimed invention. Wright discloses the printing system has a scanner section that incorporates a transparent platen, lens and mirrors to cooperate to focus an array on a line-like segment of the platen and the document being scanned thereon (invariant placement). The taggant scanner could include a broad wavelength illumination source with a narrow wavelength filter for each taggant to be detected or could include at least one narrow wavelength illumination source (tolerant to errors) and at least one specific

wavelength sensor (see column 9, lines 15-47). It is interpreted by the examiner that the platen and the document being scanned in the scanner section are located a fixed distance away from each other so that when scanning takes place the scanner reads the information on the document at an invariable distance. Furthermore, it is interpreted by the examiner that since the scanner is provided with an illumination source with a narrow wavelength filter for each taggant, the detector is tolerant to errors when scanning.

7. Regarding claims 8 and 11, the references Wright and Yasuo disclose the claimed invention. Wright does not disclose marking the item with a code after detecting the taggant and verifying the item at a later time by comparing a second data to a first data. Yasuo discloses the two dimensional code card is first cut from base paper which encloses ferrite magnetism powder at a random distribution on the card. The card is horizontally scanned with the half-coaxial resonator toward the direction of movement of a card from a predetermined position which shows the position of the predetermined detection line decided by the system. Since there is a magnetic pattern on the card, this sets a password as a key number to mark the generating circuit (marking the item with a code related to first data). The code data in the form of 3 characters is recorded and information such as the amount of money on the card is coded and written in an initial code area by the thermal recording head. The card reading machine obtains predetermined position of a card from the system in which the position of the detection line is shown. A scan of the predetermined detection line is performed (generating second data) and the password from the magnetic pattern is

asked for. Password collation of decoding of the conventional card reading machine and the recorded data read with the optical reading head of the composition is performed using the password and if decoding is possible where the passwords match (comparing data), meaning the pattern of magnetic particles is the same, verification of a valid card is used, otherwise, this is an indication that is a forged or different card (see [0015-0019]). It would have been obvious to one having ordinary skill in the art at the time the invention was made to mark the item, in this case with a unique password, correlated to a particular set of data points or pattern on the card creating a first set of data points and then later performing a second scan creating a second set of data points to verify the validity of the same card at a different time to ensure the authenticity of the card.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTINE T. MUI whose telephone number is (571)270-3243. The examiner can normally be reached on Monday-Thursday 7-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on (571) 272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1797

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CTM

/Walter D. Griffin/
Supervisory Patent Examiner, Art Unit 1797